



MPEG 2 Standard Definition Encoder

The edge 5110-RM is a high performance MPEG 2 Standard Definition encoder supporting the most demanding distribution applications and can easily be upgraded to support encrypted or free to air SD 4:2:2 contribution platforms. It's video performance is exceptional, ranging from the lowest 4:2:0 distribution rates all the up to 50 Mbs 4:2:2 for contribution. Offering dual stream on-board audio encoding, the edge-5110 audio CODEC support includes dual Dolby Digital and MPEG 1 Layer 2 encoding plus rock solid dual channel Dolby E/5.1 passthrough.

Optional 4:2:2 and BISS 1/E encryption software upgrades make the edge-5110-RM the perfect SD Contribution encoder. User interfaces include an easy-to-use front panel interface and on-board Web application server for configuration and monitoring.



features

● **Flexible Transport Options:**

The edge-5110 offers three ASI and one GIGE output, AES3 Digital, SDI and Analog Audio Inputs. It provides a stable, accurate MPEG 2 Transport Stream compliant with global DVB standards.

● **IPTV Multicast Output:**

Directly output MPEG-2 IP Multicast and eliminate the need for additional IP streaming equipment.

● **Highest quality MPEG 2 SD:**

When it comes to the best on-air look, edge-5110 delivers with excellent quality Standard Definition video encoding.

● **Rapid Configuration:**

The edge-5110 responds rapidly and reliably to the desires of the operator. Rapidly configure and control the device using the integrated front panel keypad and LCD or on-board Web application.

● **Monitor:**

Monitoring the encoder is easy and straight-forward using the built-in web browser interface, front panel LED and LCD and event logging.

Options & Accessories

BISS Encryption: BISS 1 and BISS E Encryption

M2SD422-KEY: Enables 4:2:2 Chroma Type Encoding

Related Products

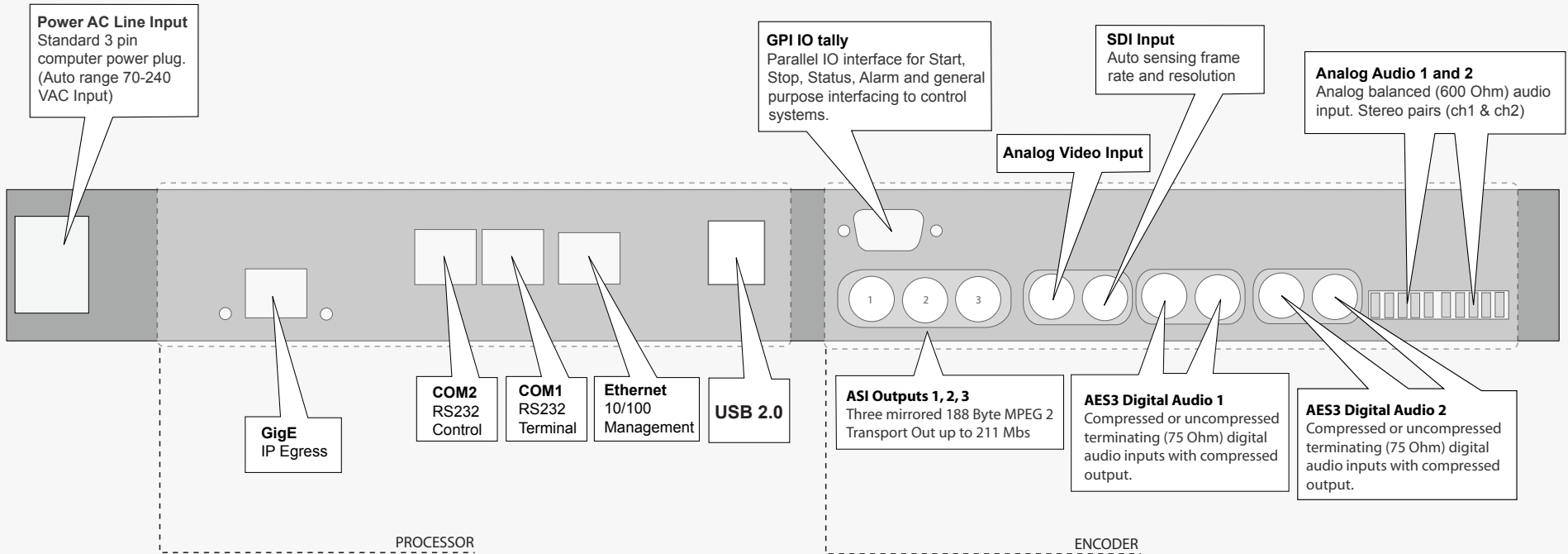
DTA-3050:

Digital turn around router for transporting MPEG 2 via ASI and IP sources to ASI, SMPTE-310 and IP outputs

Soloist-HD Pro:

Broadcast quality high definition MPEG 2 and MPEG 4 AVC decoder for broadcast applications





Encoder Video Profiles

MPEG 2 SD Profile 1:
Adaptive Field Frame (AFF) ISO13818-2 MP@ML
MPEG 2 SD Profile 2:
AFF ISO13818-2 422P@ML (optional)

Video Encoding Data Rates

MPEG 2 MP@ML SD
1 Mbs-15 Mbs - NTSC and PAL
MPEG 2 422P@ML SD (Optional)
1 Mbs-50 Mbs - NTSC and PAL

Video Frame Formats

480i, 576i, 480p, 567p

Video Encode Resolutions

Horizontal Resolutions
720, 704, 640, 544, 528, 480, 352
Vertical Resolutions
480, 576

Video Processing

Encoder Filters
Temporal & Spatial (Median)
Time Base Corrector (TBC) on SDI inputs
Chroma filtering and scaling for NTSC/PAL

Encoder Video Input

Composite (BNC)
SDI
- Video (SMPTE 259M)
- Embedded audio (SMPTE 272M)

Encoder Audio Profiles

Dolby Digital 2.0 (AC3)
- Dual Stream Encoders Included
MPEG1 Layer 2
- Dual Stream Encoders Included
Dolby E, Dolby 5.1 & Dolby 2.0 (AC3) passthrough

Encoder Audio Input

2 - Analog Audio Stereo Balanced Inputs

2 - AES3 digital audio input uncompressed (PCM) or compressed bitstream passthrough from external Dolby 2.0, 5.1 or Dolby E encoders (BNC - 75 Ohm). Includes compressed bit stream output.

1 SDI embedded input
- 4 pairs
- Video per SMPTE 272M
- One user selectable group.

User-defined analog and digital level control with sample rate conversion on all inputs

Transport Outputs

3 mirrored ASI Outputs
- ISO13818-1 MPEG 2 Transport Stream (188 byte only)

1 GIGE
- MPEG 2 Transport (UDP or RTP)

*ASI and IP operate concurrently

Transport User Data

SMPTE 334 VANC data extraction for IEEE 708/608.
Concurrent
User defined VANC Line 7-32 data extraction supported
Teletext: (NABTS) DVS053 Rev 6

Conditional Access

BISS 1/E (optional)

Table Compliance

MPEG Program Specific Information (PSI) Tables:
PAT
PMT

DVB Service Information (SI) Tables (Static)
SDT
NIT
TDT/TOT
SCTE 35 Splice Point injection

ATSC A65B (PSIP) Tables (Static)
MGT (TVCT, STT, RRT, EIT)

For dynamic DVB-SI use Adtec's DTA-3050 and DTVmanage SI Server

For dynamic A65B PSIP use Adtec's DTA-3051 and DTVGuide web service

Physical

1 RU chassis (19in x 14in x 1.75in)
13 pounds

Power

Start-up: 72 Watts
Operational: 60 Watts

User Interface Requirements

Supported Browsers
IE 7 and higher
Firefox 3.0.0 and higher
Safari 3.0.0 and higher
Opera 9.0 and higher